

United States Patent [19]

Harada et al.

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[54] SUPER RAPID HARDENING MIXTURE

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[58] Field of Search 106/90, 94, 96, 314, 106/315; 260/28.5 AS, 28.5 B, 28.5 AV, 28.5 D, 745

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[57] ABSTRACT

This invention relates to a super rapid hardening mixture comprising

- a. a super rapid hardening cement in which $11\text{CaO} \cdot 7\text{Al}_2\text{O}_3 \cdot \text{Ca}_X$ (X is a halogen atom), $3\text{CaO} \cdot \text{SiO}_2$, and CaSO_4 are present as indispensable components;
- b. at least one short range strength accelerator selected from the group consisting of a calcium aluminate material, a lime material, an amine and an ethylene glycol material and calcium sulfate hemihydrate;
- c. at least one emulsion selected from the group consisting of a bituminous emulsion, a rubber latex and a resin emulsion;
- d. from 12 to 50 weight percent of water in the total mixture.

15 Claims, 1 Drawing Figure